Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 16:58:02 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 364 TO ITERATE

100.0% PROCESSED 364 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

6136 TO 8424 1 TO 80

PROJECTED ANSWERS:

L2 1 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:58:09 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 7200 TO ITERATE

12 ANSWERS 100.0% PROCESSED 7200 ITERATIONS

SEARCH TIME: 00.00.01

L3 12 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 161.33 FULL ESTIMATED COST 161.54

FILE 'CAPLUS' ENTERED AT 16:58:20 ON 03 FEB 2005

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FILE COVERS 1907 - 3 Feb 2005 VOL 142 ISS 6 FILE LAST UPDATED: 2 Feb 2005 (20050202/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L41 L3

=> d l4 ibib abs hitstr

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:674790 CAPLUS

DOCUMENT NUMBER:

137:216954

TITLE:

Preparation of 1-piperidinylmethyl-4-arylpiperazines

as ligands for dopamine, serotonin, or norepinephrine

receptors/transporters.

INVENTOR(S):

Persons, Paul E.; Radeke, Heike

PATENT ASSIGNEE(S):

Sepracor, Inc., USA

SOURCE:

U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						D	DATE		APPLICATION NO.						DATE			
	US 2002123499					A1		20020905		US 2002-87609				20020301					
						B2 20040330									20020001				
	WO 2002069973				A1 20020912			WO 2002-US6273					. 20020301						
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	ΙĹ,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
								ZA,											TM
		RW:						MZ,											
			CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	
			BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
							1 20041216				US 2004-808252								
PRIORITY APPLN. INFO.:									1	US 2001-272966P					P 20010302				
										1	US 2	002-	8760	9		A1 20	0020	301	
OTHER SOURCE(S):						MARPAT 137:216954													

OTHER SOURCE(S):

GI

RN

CN

RN

AB Title compds. [I; X = (CR2)n; Z = O, H2; R = H, alkyl, cycloalkyl, aryl, heteroaryl, aralkyl, heteroaryl; 2 geminal R = O; R1 = (substituted) aryl, heteroaryl; R2 = (substituted) aryl, heteroaryl, aralkyl, heteroaralkyl, diarylalkyl, diheteroarylalkyl; m = 0-3; n = 1-3], were prepared Thus, methanesulfonic acid 1-[1-(4-chlorophenyl)cyclobutanecarbonyl]piperidine-3-ylmethyl ester (preparation given), 1-(2-methoxyphenyl)piperazine, and Et3N were refluxed 20 h in MeCN to give [1-(4-chlorophenyl)cyclobutyl]-[3-[4-(2-methoxyphenyl)piperazin-1-ylmethyl]piperidin-1-yl]methanone. The latter showed IC50<1μM for α2a receptors.

IT 454445-10-4P 454445-12-6P 454445-13-7P 454445-14-8P 454445-15-9P 454445-16-0P 454445-17-1P 454445-18-2P 454445-19-3P 454445-20-6P 454445-21-7P 454445-22-8P

Ι

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1-piperidinylmethyl-4-arylpiperazines as ligands for dopamine, serotonin, or norepinephrine receptors/transporters) 454445-10-4 CAPLUS

Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

454445-12-6 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(3-chlorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ \hline \\ & & \\ \hline \\ & & \\ \end{array}$$

RN 454445-13-7 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(4-fluorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

RN 454445-14-8 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-chlorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

$$C1$$
 $C1$ 
 $CH_2$ 
 $CH_2$ 

RN 454445-15-9 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-fluorophenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

RN 454445-16-0 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-[2-(trifluoromethoxy)phenyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

RN 454445-17-1 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-[2-(1-methylethoxy)phenyl]-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

RN 454445-18-2 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclobutyl]carbonyl]-3-[[4-(2-hydroxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

$$C1$$
 $O$ 
 $CH_2$ 
 $N$ 
 $N$ 

RN 454445-19-3 CAPLUS

CN Piperazine, 1-[[1-[[1-(4-chlorophenyl)cyclobutyl]methyl]-3piperidinyl]methyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

RN 454445-20-6 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclopropyl]carbonyl]-3-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & \\ \hline \\ & & \\ \end{array}$$

RN 454445-21-7 CAPLUS

CN Piperidine, 1-[[1-(4-chlorophenyl)cyclopentyl]carbonyl]-3-[[4-(2-methoxyphenyl)-1-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

RN 454445-22-8 CAPLUS

CN Piperazine, 1-[[1-[[1-(4-chlorophenyl)cyclopropyl]methyl]-3piperidinyl]methyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)